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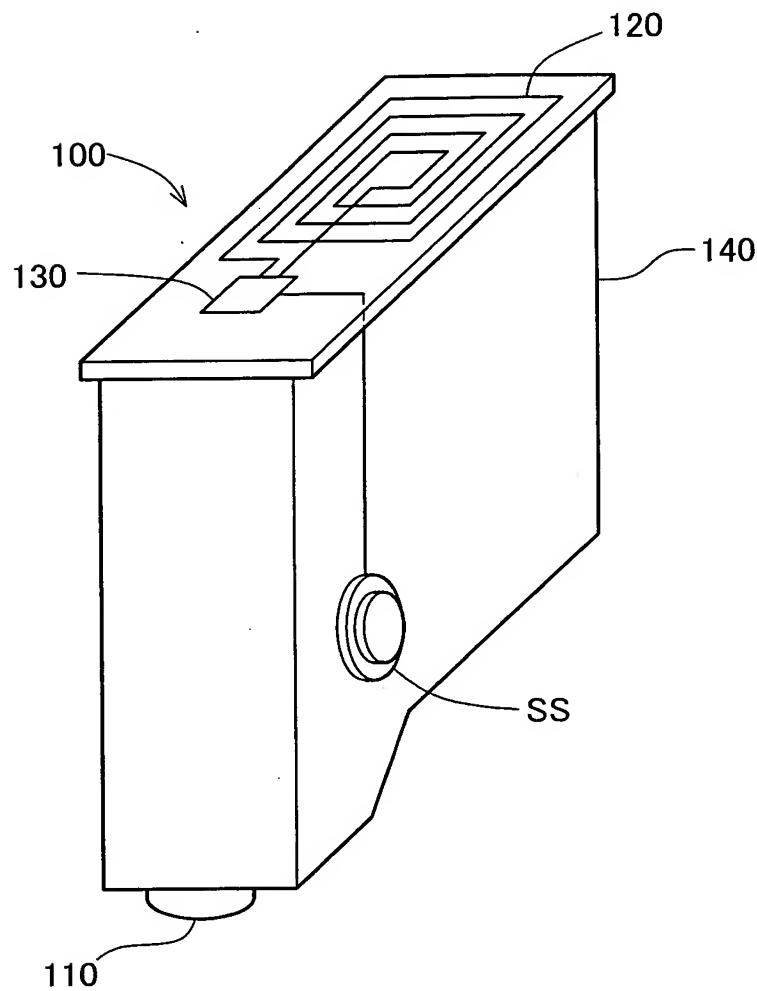
PFO4J93 *

Inventor: Yuichi Nishihara
For: EXPENDABLE CONTAINER WITH
FUNCTION OF MEASURING ...
Appln. No.: PCT/JP2004/001147
Filing Date: Concurrently Herewith (12/8/04)
Atty. Docket: 405507/0030
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Fig.1



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Fig.2(a)

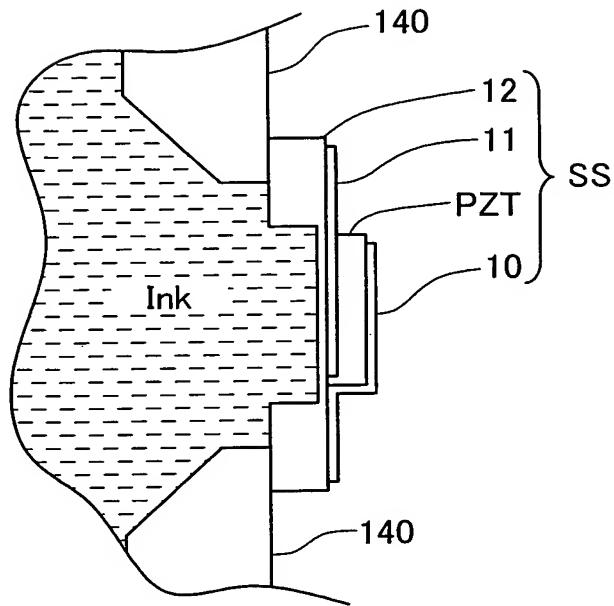
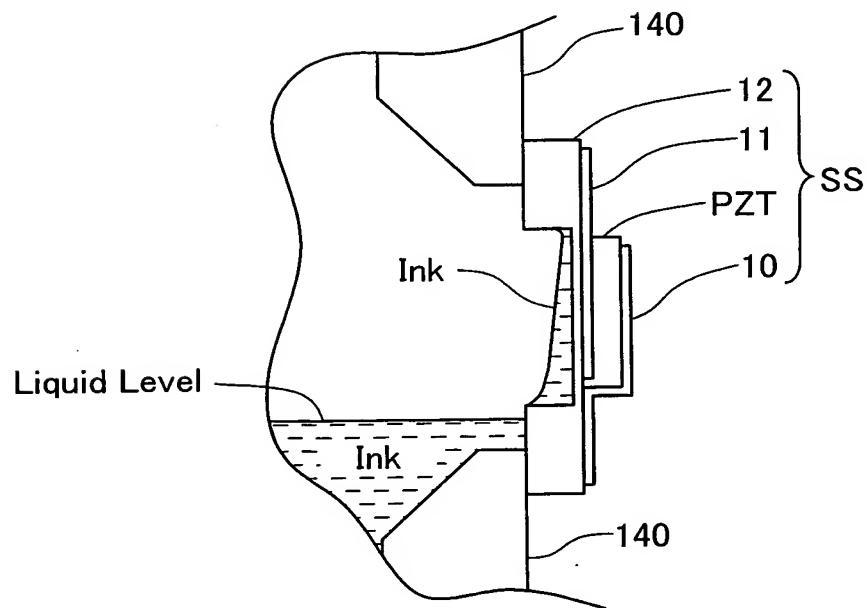
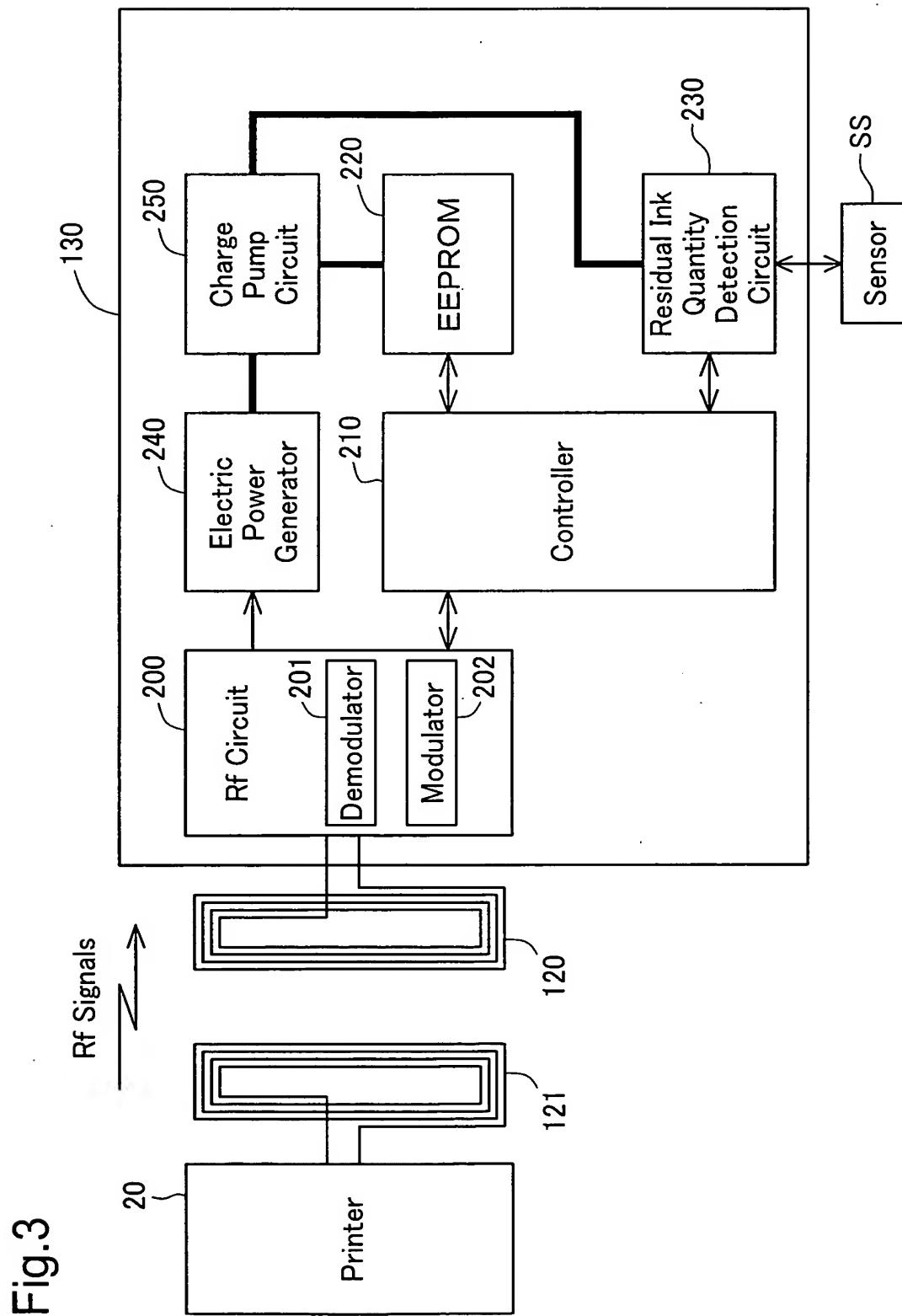


Fig.2(b)



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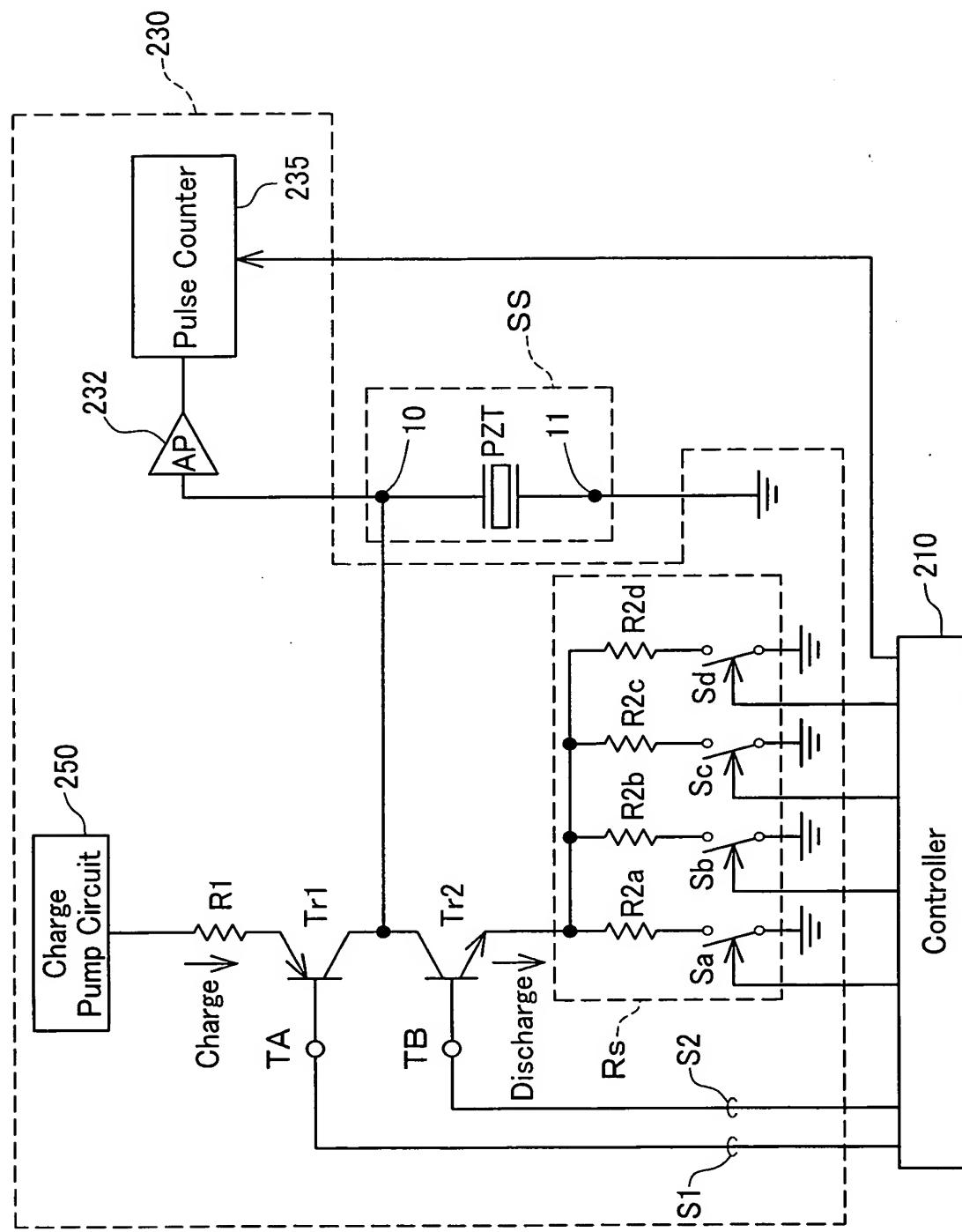
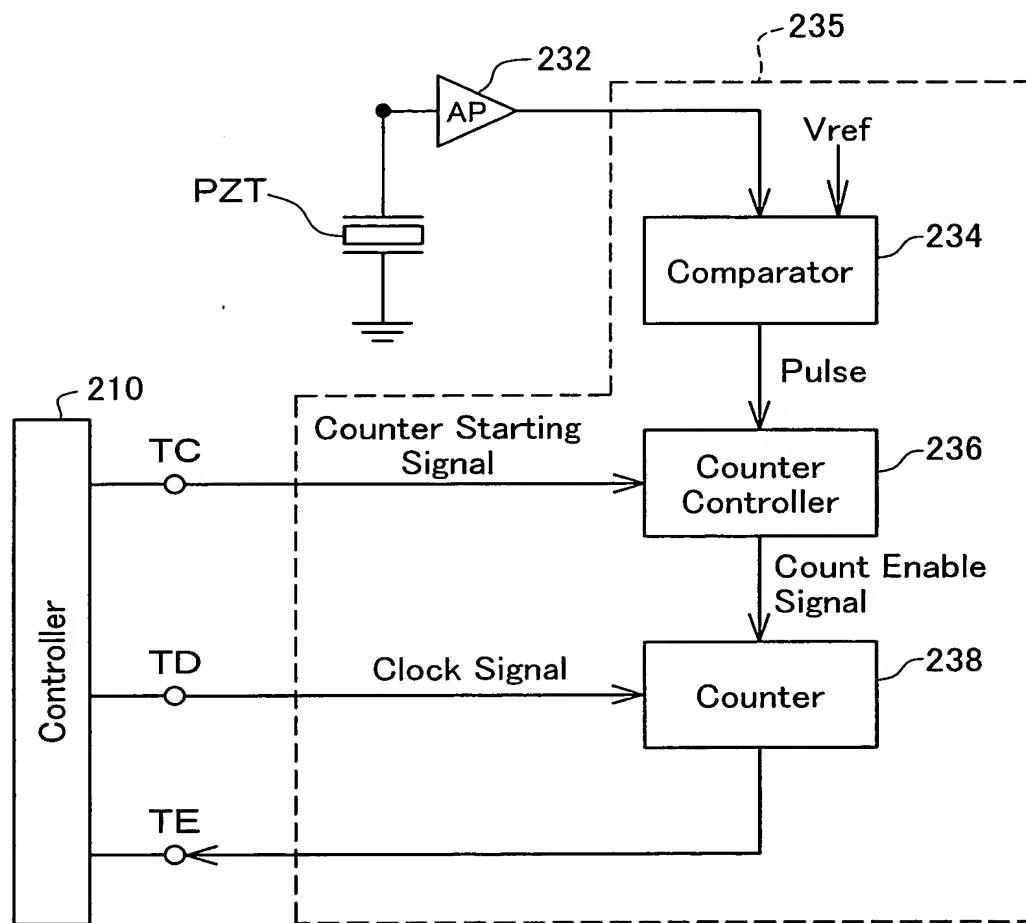


Fig.4

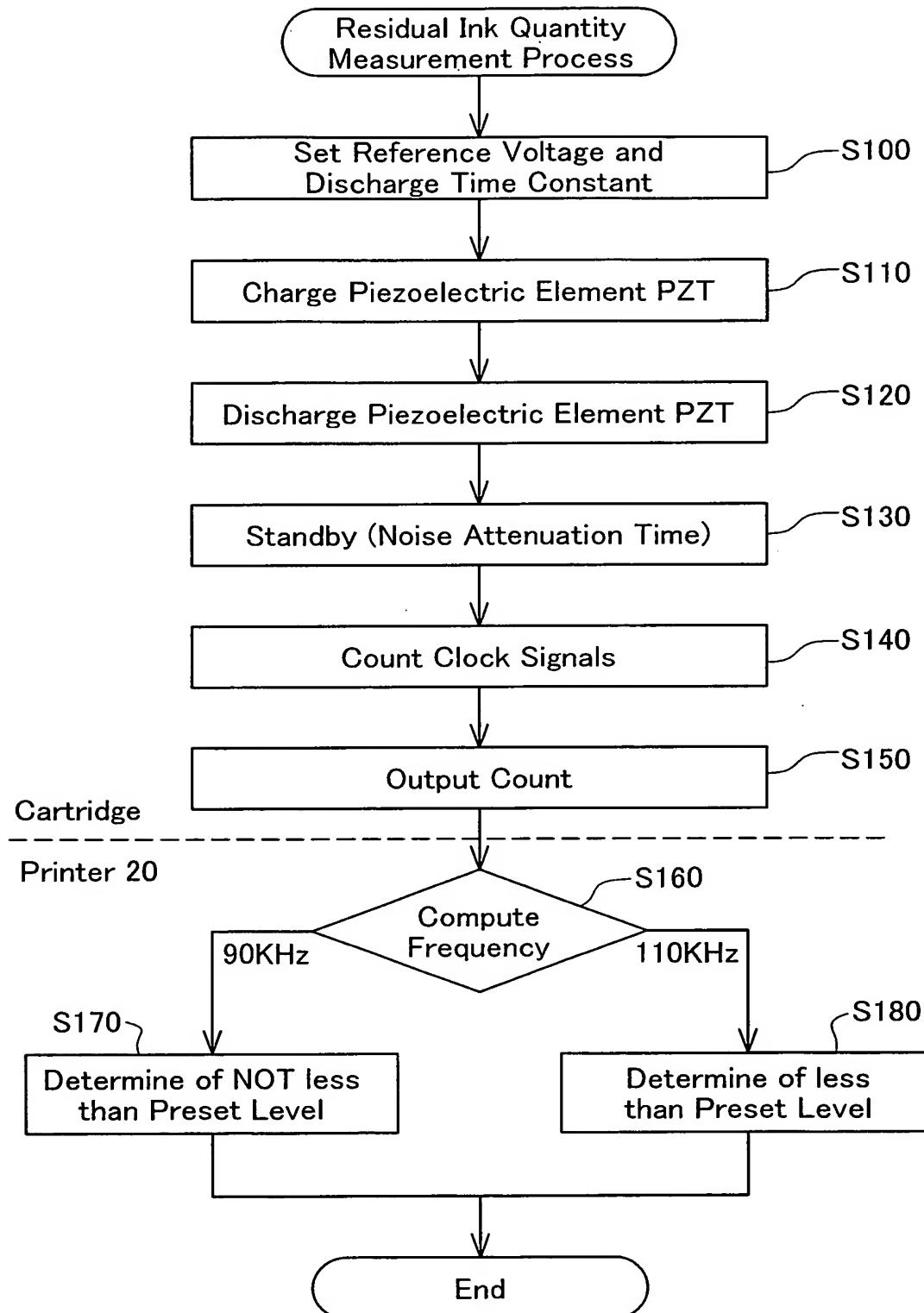
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Fig.5



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Fig.6



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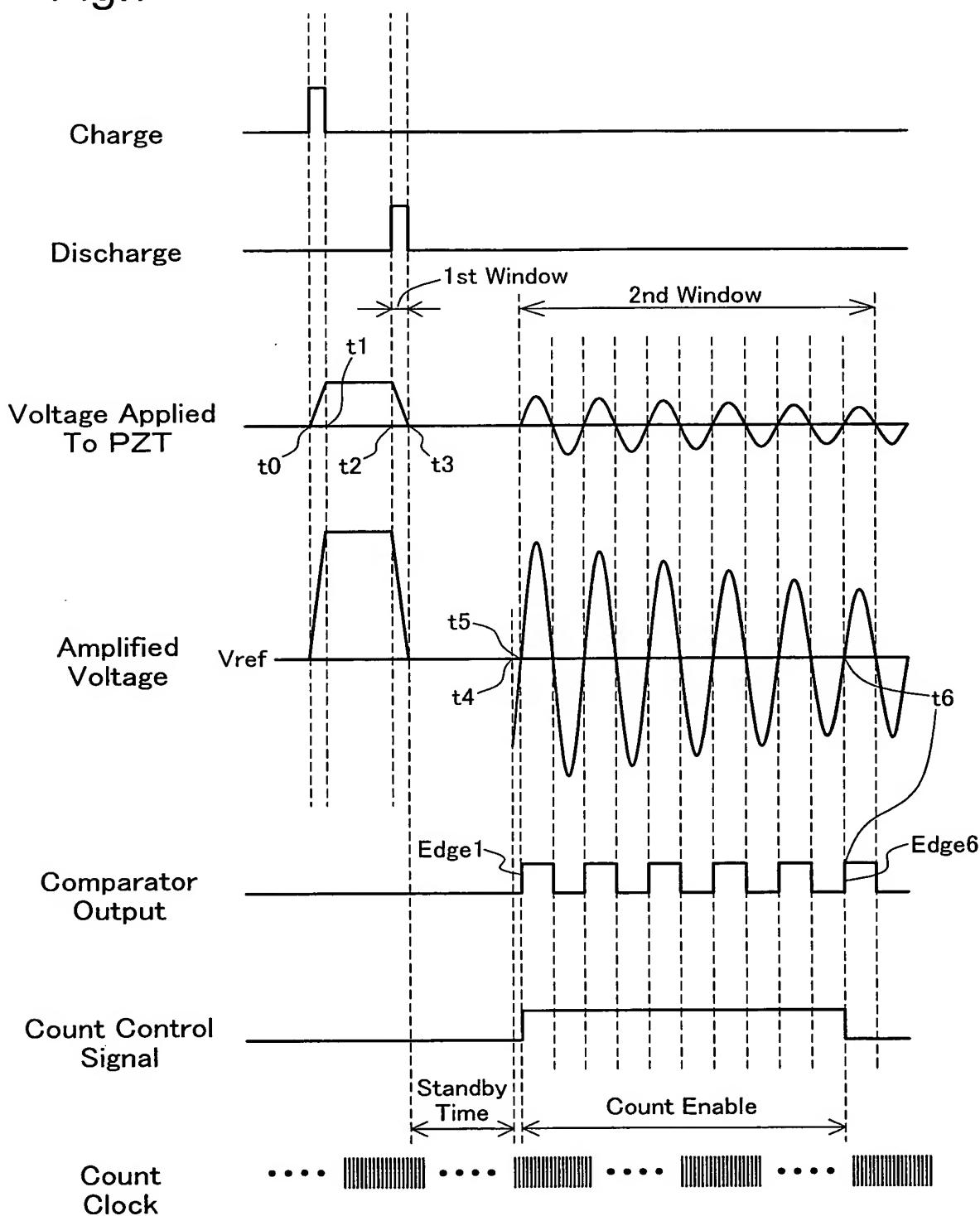
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Fig.7



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Fig.8(a)

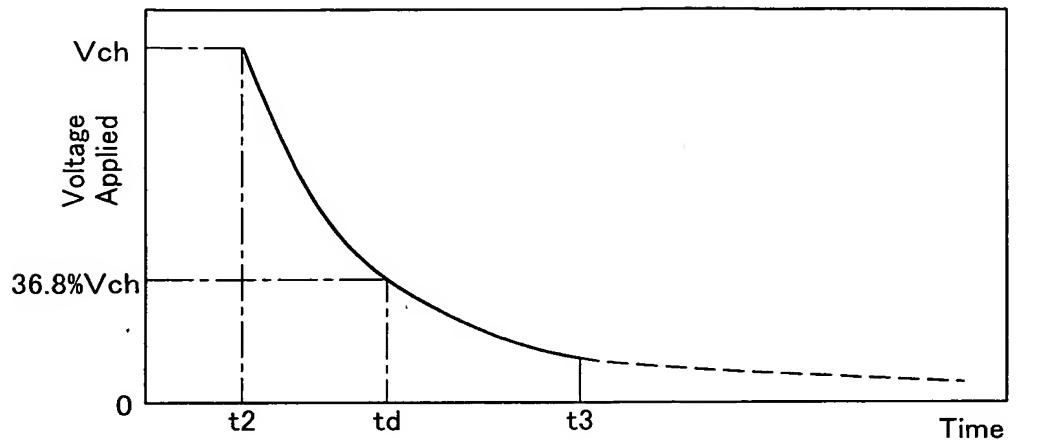
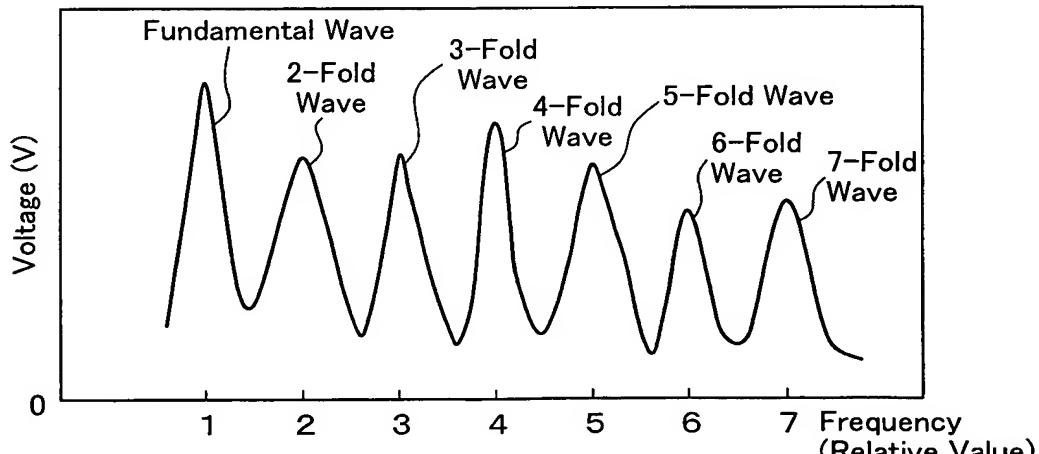
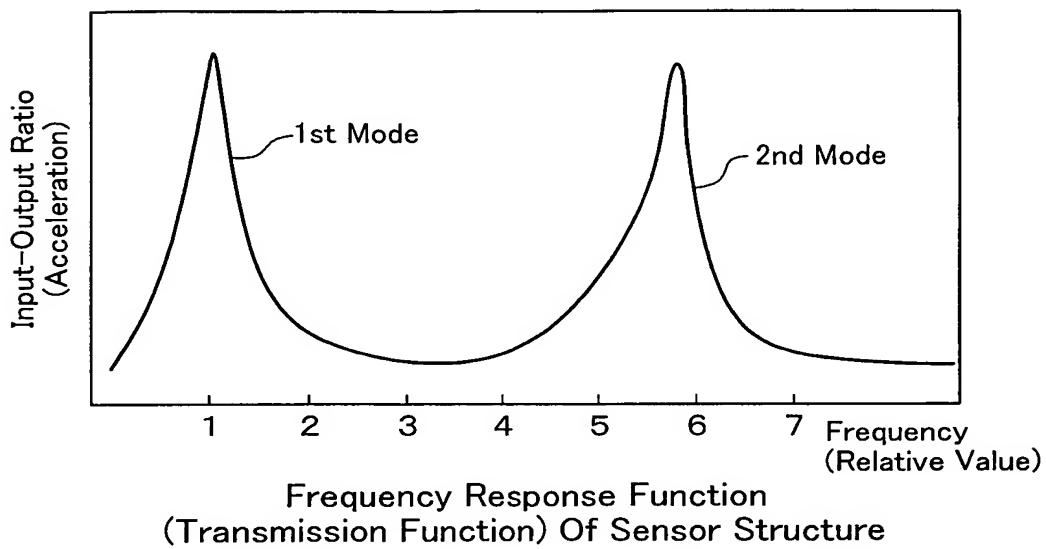
Applied Voltage Of Piezoelectric Element In Time Domain
(Discharge Time)

Fig.8(b)

Applied Voltage of Piezoelectric Element
in Frequency Domain

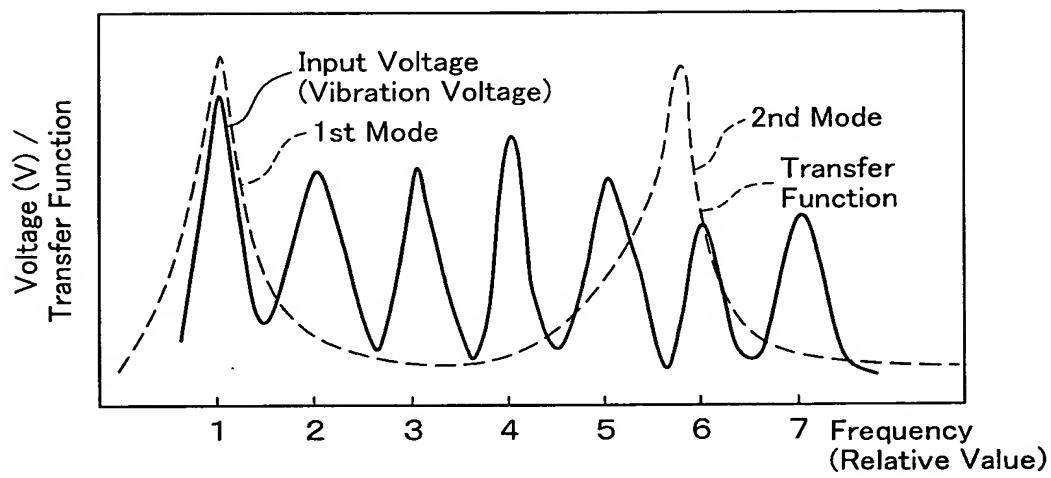
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Fig.9



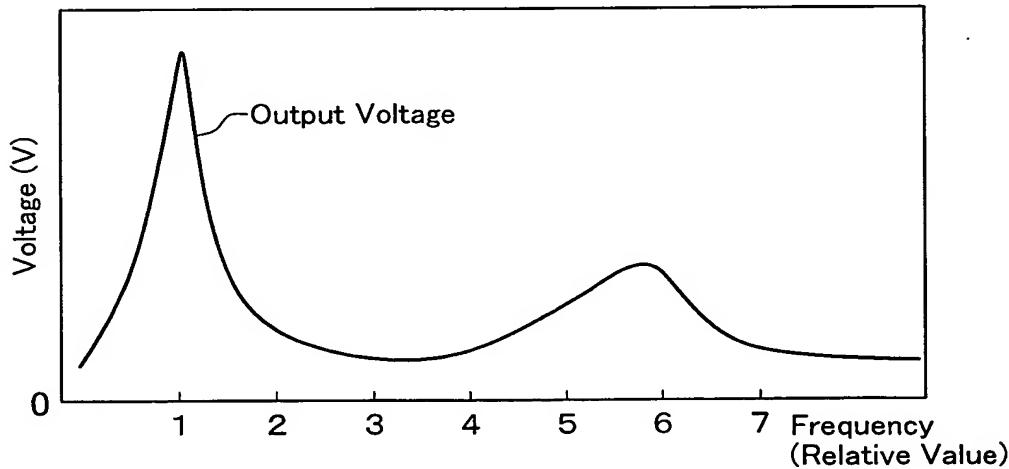
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Fig.10(a)



Vibration Voltage and Transfer Function of Sensor in Frequency Domain

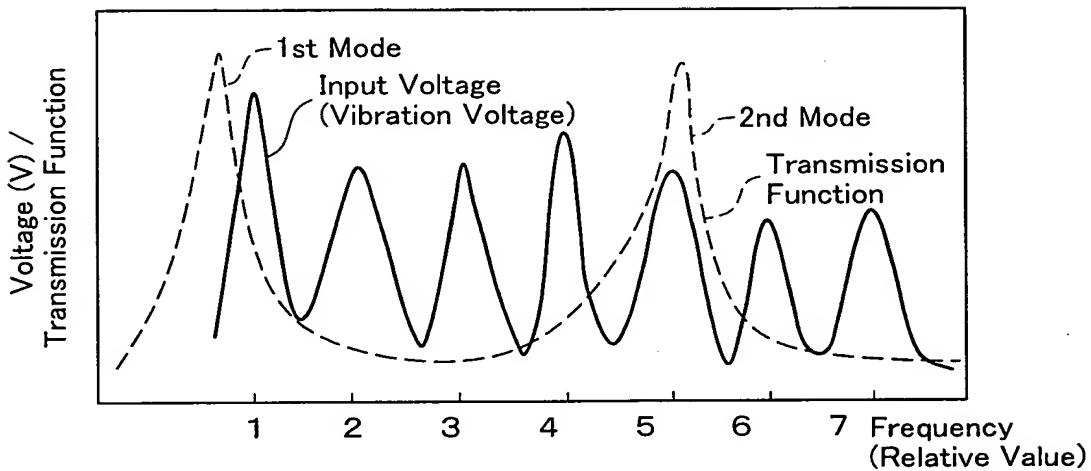
Fig.10(b)



Output Voltage of Sensor in Frequency Domain

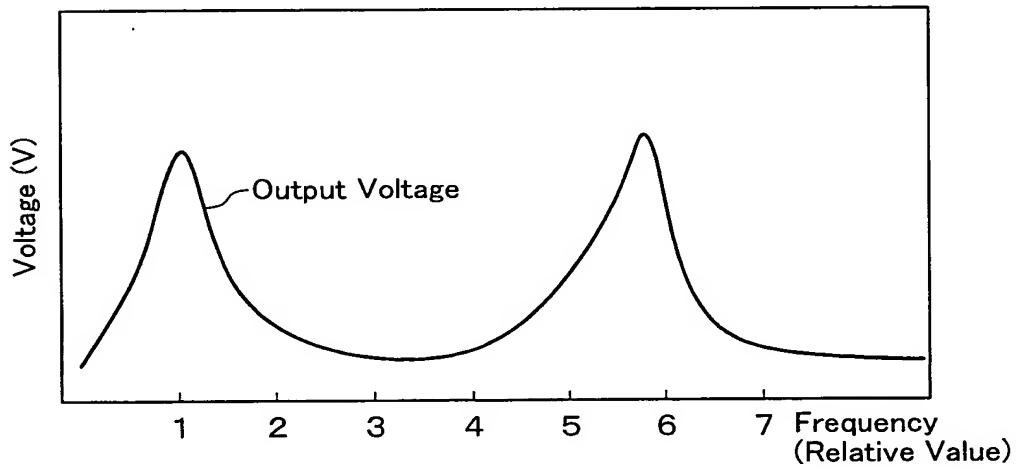
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Fig.11(a)



Vibration Voltage and Transmission Function Of Sensor In Frequency Domain

Fig.11(b)



Output Voltage of Sensor In Frequency Domain

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Fig.12(a)

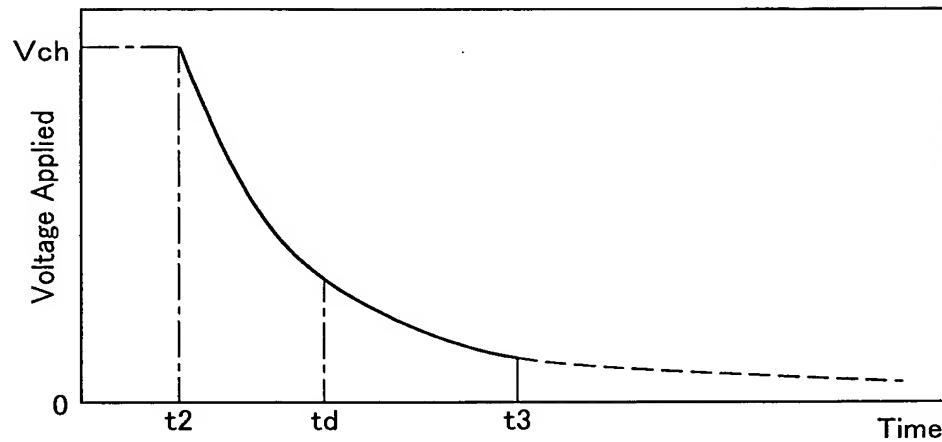
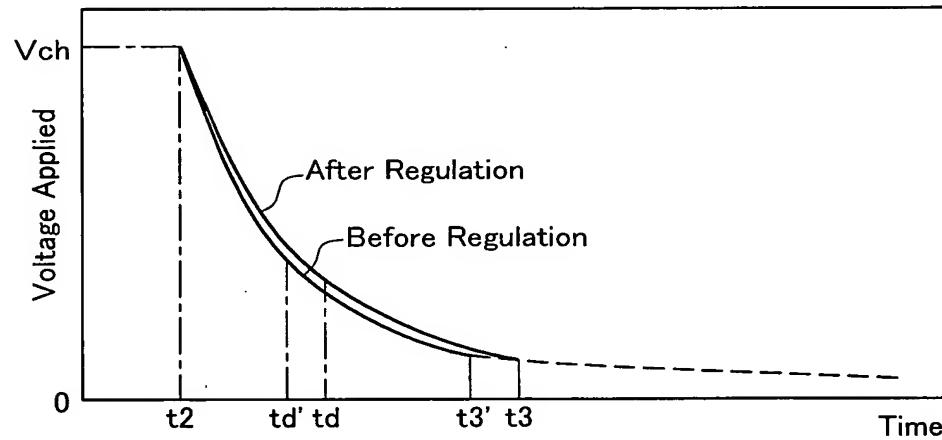
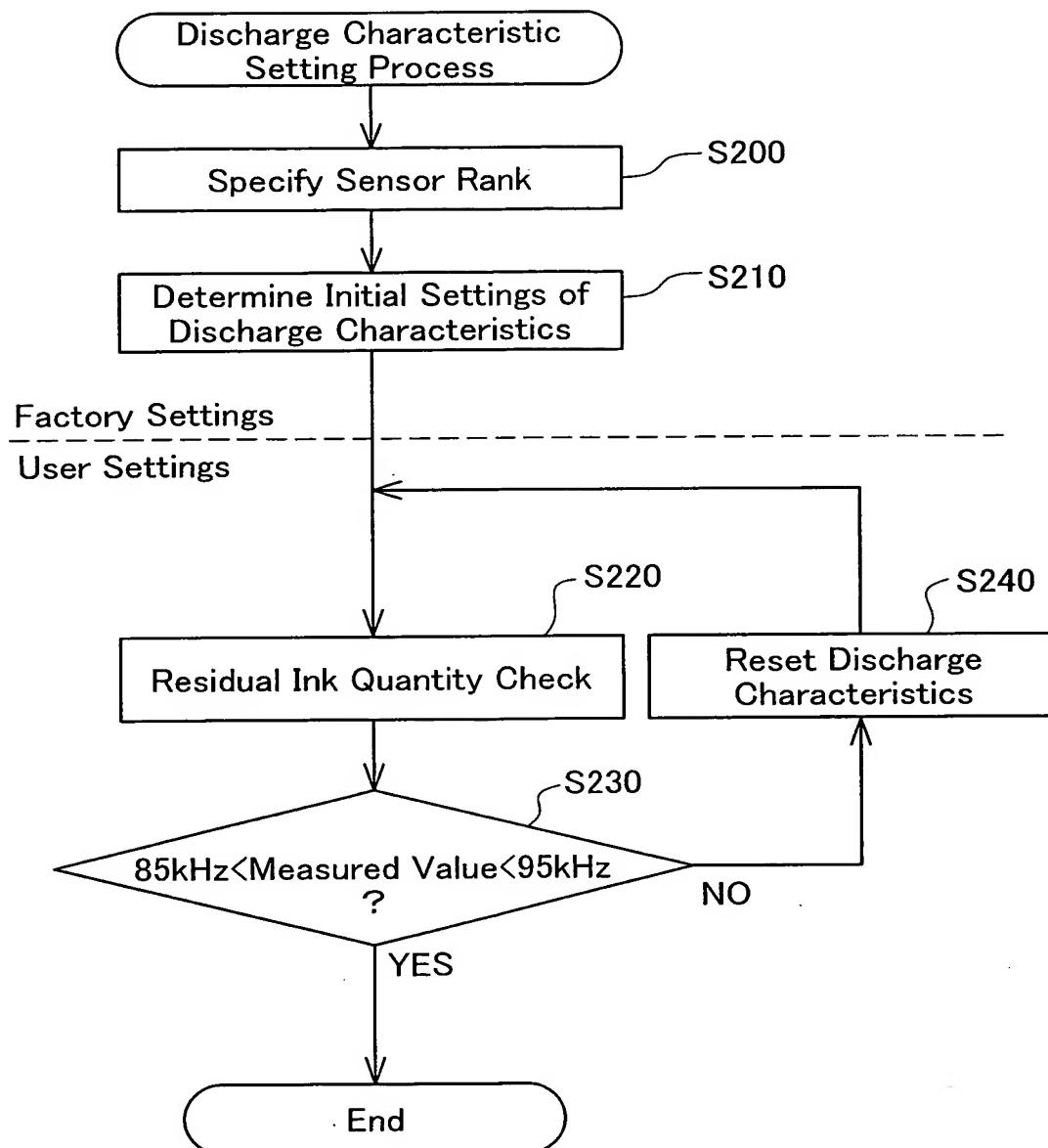
Applied Voltage of Piezoelectric Element in Time Domain
(Discharge Time)

Fig.12(b)

Applied Voltage of Piezoelectric Element in Time Domain
(Discharge Time)

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Fig.13



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Fig.14

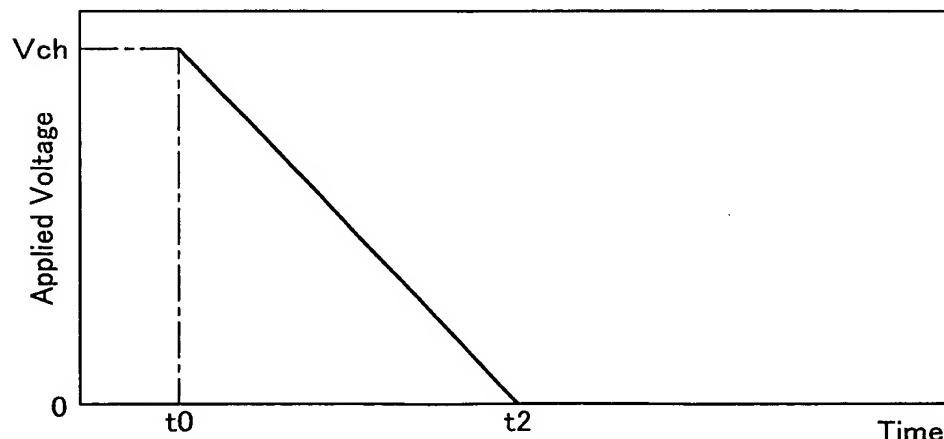
Sensor Rank and Settings in
Discharge Time Constant Adjustment Resistive Circuit

Sensor Rank	Settings of Switches				Composite Value Of Resistance (Unit: Ω)
	Sa	Sb	Sc	Sd	
A	ON	ON	ON	ON	53
B	ON	ON	ON	OFF	57
C	ON	ON	OFF	ON	62
D	ON	ON	OFF	OFF	67
E	ON	OFF	ON	ON	73
F	ON	OFF	ON	OFF	80
G	ON	OFF	OFF	ON	89
H	ON	OFF	OFF	OFF	100

$$\begin{aligned} R_a(Sa) &: 100\Omega \\ R_b(Sb) &: 200\Omega \\ R_c(Sc) &: 400\Omega \\ R_d(Sd) &: 800\Omega \end{aligned}$$

Fig.15

Modified Example



Discharge Waveform in Constant Current Circuit